



## Omni Switch 6900

### Release 7.3.3.646.R01

The following is a list of issues that have been identified and corrected in AOS software release. This document is intended to be used as a pre-upgrade guide and does not replace the Release Notes which are created for every GA release of software.

**Important Notice:** For a copy of software release not posted on the Web or if you have any question or concern please contact Alcatel’s Technical Support Department.

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## Problems Fixed Between Builds 385 and 434

PR **188909** Build: 7.3.3.390.R01  
 Summary: SPB stops working when primary box in a POD of 6 is switched off  
 Explanation: Changes incorporated to check if all Nis are up and connected to new master after vc-takeover

PR **188685** Build: 7.3.3.392.R01  
 Summary: boot.cfg.1.err error created after the reload  
 Explanation: Snapshot issue for BVLAN description has been fixed

PR **187413** Build: 7.3.3.394.R01  
 Summary: cp: write error: No space left on device.  
 Explanation: ERP logs has been moved from /var/log to swlog.

PR **189017** Build: 7.3.3.395.R01  
 Summary: EMP ip address is not reachable after changing the ip address.  
 Explanation: Modification of EMP Address is handled properly

PR **190182** Build: 7.3.3.396.R01  
 Summary: DHCP relay is not working in OS6900  
 Explanation: Changes done to check if next hop is configured for client vlan instead of vlan id

PR **188224** Build: 7.3.3.401.R01  
 Summary: No matches for policy rules on VFL ports; VFL ports should not be allowed to be configured for destination port condition too  
 Explanation: VFL ports will not be allowed to be configured for destination port condition.

PR **190267** Build: 7.3.3.402.R01  
 Summary: ISIS problem in OS6900 switch crashed with generating PMD file.  
 Explanation: Change done to avoid VC split after the isisVc crash. In case of isisVc crash or exits, the entire chassis is rebooted

PR **190465** Build: 7.3.3.402.R01  
 Summary: OS6900 switch crashed with generating PMD file  
 Explanation: Change done to handle vmCmm crash during show vlan 2000 vfl-members command

PR **190924** Build: 7.3.3.403.R01  
 Summary: 7.3.3 vmCmm crash due to VLAN description having 32 characters  
 Explanation: If string length is more than 32, cli throws an error.

PR **189672** Build: 7.3.3.405.R01  
 Summary: OSPF -unplanned- graceful restart does not work as expected during VC Master chassis failure MD5 sequence number mismatch  
 Explanation: OSPF Gracefulness mechanism has been changed for MD5 Authentication

PR **189709** Build: 7.3.3.406.R01  
 Summary: An error is thrown when copying files between VC members  
 Explanation: NFS related issues are resolved.



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PR	<b>190901</b>	Build: 7.3.3.409.R01
Summary:	"show qos qsp detail" doesn't give any output	
Explanation:	Display CLI header for "show qos qsp detail" command, when there are no ports to display	

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PR	<b>187675</b>	Build: 7.3.3.409.R01
Summary:	We can't access to one of 6900 by telnet or ssh. Even ping can't reach to this switch.	
Explanation:	Changes have been made so that the Vlan translation bitmask will be synchronized between hardware and software	

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PR	<b>190908</b>	Build: 7.3.3.410.R01
Summary:	"ERROR: CIR cannot be greater than PIR" incorrect error message	
Explanation:	Display error message stating wrong configuration of min-bw and max-bw (instead of CIR/PIR)while configuring DCB profiles wrongly	

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PR	<b>191090</b>	Build: 7.3.3.411.R01
Summary:	Buffer Overflow Exception in specific policy command	
Explanation:	Policy Cli Help command will properly display the Help output.	

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PR	<b>191547</b>	Build: 7.3.3.412.R01
Summary:	FP_METER_TABLE entry 1 parity error	
Explanation:	Disable fp_meter_parity control	

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PR	<b>190509</b>	Build: 7.3.3.412.R01
Summary:	On a VC of six OS6900, different behavior seen for split detection between chassis.	
Explanation:	RCD protocol has been enhanced to take care of VC of 6 topology. RCD protocol will behave similar to VC of 2.	

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PR	<b>188535</b>	Build: 7.3.3.414.R01
Summary:	VLAN inactive in a VC	
Explanation:	Vlan inactive issue is fixed	

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PR	<b>190839</b>	Build: 7.3.3.416.R01
Summary:	In a specific scenario eoamCmm task generates pmd.	
Explanation:	Refined code to prevent double free scenarios which will in turn prevents crash due to double free or corruption	

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PR	<b>187330</b>	Build: 7.3.3.418.R01
Summary:	OS6900 time zone and swlog time synchronization issue	
Explanation:	tzset API is used to update the time zone in swlog timestamp	

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PR	<b>191045</b>	Build: 7.3.3.418.R01
Summary:	port goes up/down every one minute and network outage	
Explanation:	Fix has been done to throw the error message during change in the fault	

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PR	<b>192210</b>	Build: 7.3.3.422.R01
Summary:	linkAggCmm main info(5) Wrong index number 1 message seen in swlogs	
Explanation:	Code changes has done to avoid these messages in info level debug. Changed in to Debug level 1 messages.	

PR	<b>191741</b>	Build: 7.3.3.424.R01
Summary:	[TYPE1] Issues with System daylight savings.	
Explanation:	CST6SASK is being added in CLI for SASK time zone	
PR	<b>192741</b>	Build: 7.3.3.432.R01
Summary:	"SMSyncUpdateCMMVer1: 4/0 operation status change from 4 to 0" messages are logging in swlogs.	
Explanation:	Fix has done to Correct sync for chassis disconnect, set CMM operational state in cslib.	
PR	<b>193177</b>	Build: 7.3.3.434.R01
Summary:	AOS 6900 crashes with PMD when AAA is configured.	
Explanation:	radCli crash due to incorrect sessionid string length while building accounting message request in Radius server structure. Fix has done for same.	

## Problems Fixed Between Builds 435 and 505

PR	<b>188154</b>	Build: 7.3.3.437.R01
Summary:	LACP sync out are seen on the SPB interfaces, no physical port up/down reported	
Explanation:	LACP PDU which are not intended to the Port are dropped.	
PR	<b>191622</b>	Build: 7.3.3.439.R01
Summary:	OS6900: Duplicate configuration present for SPB in "show configuration snapshot"	
Explanation:	show configuration snapshot will not display duplicate SPB configuration.	
PR	<b>192556</b>	Build: 7.3.3.444.R01
Summary:	App-fingerprint issue with OS6900 chassis with UNP configuration.	
Explanation:	Changes to support when Max b/w is configured zero so configure depth as well to zero	
PR	<b>192874</b>	Build: 7.3.3.444.R01
Summary:	Ref PR# 191901: Wrong socket structure makes infinite loop of flush events from stpNi to SINi	
Explanation:	Source Learning and STP NI task socket connection optimized in case of reconnect after a disconnect.	
PR	<b>193888</b>	Build: 7.3.3.446.R01
Summary:	Security group saw that TCP port 12000 is open	
Explanation:	Port is now open only for local interface	
PR	<b>193908</b>	Build: 7.3.3.447.R01
Summary:	In 6900SES CMD alarm(1) CLI log trigger for any configuration change via MIP_gateway in swlog events	
Explanation:	Appropriate log levels has been added, swlog level changed to info.	
PR	<b>190436</b>	Build: 7.3.3.448.R01
Summary:	vfcn error: [vfccQsHandleLinkEvents:276] VFCC : gport 12 LINK UP Invalid Speed 0 sts 1.	
Explanation:	Perform Ethoam violation only if the link is UP	
PR	<b>192836</b>	Build: 7.3.3.452.R01
Summary:	OS6900: ARP replies seen on ports which are not tagged for the vlan.	

Explanation: Don't process ARP/IPv6 packets in software, if these packets are seen on ports which are not in the vlan from where the ARP request is sent.

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PR **184885** Build: 7.3.3.455.R01  
 Summary: Mac-learning issue on OS10K  
 Explanation: Inter NI MAC Keepalive messages are restricted for Static Mac.

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PR **188390** Build: 7.3.3.458.R01  
 Summary: Port-Mirroring causing issues in the network.  
 Explanation: Port Mirroring and Policy based Mirroring conflicts are resolved.

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PR **194509** Build: 7.3.3.459.R01  
 Summary: Error "Invalid entry: "pvst+compatibility"" in boot.cfg.1.err file  
 Explanation: PVST+ Mode setting optimized to avoid getting boot.cfg error during reload.

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PR **191275** Build: 7.3.3.459.R01  
 Summary: OS6900 no description of udp relay is seen in show configuration snapshot output  
 Explanation: Port description is saved in the snapshot

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PR **187396** Build: 7.3.3.462.R01  
 Summary: BUG: spinlock lockup on CPU#0 issue on OS6900 with VC  
 Explanation: OSPF task would use ioctl call instead of raw file open to read data from socket

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PR **192774** Build: 7.3.3.463.R01  
 Summary: Specific VLAN config removed from OS6900 chassis using "diff" and "cp" commands.  
 Explanation: MIP OVERFLOW case in vlan description has been handled.

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PR **195008** Build: 7.3.3.471.R01  
 Summary: Chassis 2 of virtual chassis goes to "failure-shutdown" state once VFL came back on.  
 Explanation: Fix has done for if a VFL is down after vc-takeover, then both chassis went into Split Topology.

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PR **195616** Build: 7.3.3.472.R01  
 Summary: OS6900 switch crash analysis - swlogd: sINi EXCEPT info(5) log seen prior to the crash  
 Explanation: Code changes done to avoid crash while processing invalid ipv6 icmp packet

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PR **190891** Build: 7.3.3.474.R01  
 Summary: OS6900 Incorrectly ARPs for its own VRRP address.  
 Explanation: ARP, ICMP and UDP packets alone is handled for VRRP Address.

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PR **195810** Build: 7.3.3.475.R01  
 Summary: Unable to set lacp system priority > 255 while configuring it on the port.  
 Explanation: Mip bounds is checked with system\_priority range instead of port\_priority range.

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PR **194851** Build: 7.3.3.478.R01  
 Summary: "please wait....." message appeared on console screen after applying the qos.  
 Explanation: Reset tcam calculation if rule was previously forced paired. Only check force slice pair once for each pair of slices

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PR	<a href="#">194737</a>	Build: 7.3.3.480.R01
Summary:	Slave chassis in the VC reloaded, without generating any PMD file.	
Explanation:	Print output was not stored in buffer. Fix has done for same.	

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PR	<a href="#">194460</a>	Build: 7.3.3.482.R01
Summary:	show LACP port range seeing internal error	
Explanation:	Linkagg MIP Functionality buffer usage optimized to avoid getting internal error.	

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PR	<a href="#">194397</a>	Build: 7.3.3.483.R01
Summary:	OS6900: Many TCP ports are still open detected by nmap scanner	
Explanation:	Port is now open only for local interface	

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PR	<a href="#">195490</a>	Build: 7.3.3.484.R01
Summary:	VC of 2 X OS6900-X40, master rebooted and VC is down due to confd task crash in VC-1.	
Explanation:	Fix done for "Write memory is not allowed during VC Synchronization"	

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PR	<a href="#">195794</a>	Build: 7.3.3.486.R01
Summary:	SAP port has 100% packet drops with max frame size 9173 bytes	
Explanation:	Change made to extend the MTU size (9216) to include mac-in-mac header in Jumbo packet	

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PR	<a href="#">196280</a>	Build: 7.3.3.487.R01
Summary:	SPB ACCESS links connected to OS6250 switch keeps flapping resulting the intermediate packet loss	
Explanation:	Preventing user configured SPB access ports from flapping during the auto-fabric discovery window	

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PR	<a href="#">197526</a>	Build: 7.3.3.489.R01
Summary:	OS6900 crashes when SPB configuration is applied.	
Explanation:	show spb service snapshot buffer utilization optimized	

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PR	<a href="#">189185</a>	Build: 7.3.3.492.R01
Summary:	Display issue in AOS6900 when IPV6 BGP is configured.	
Explanation:	display issue fixed for show ipv6 routes	

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PR	<a href="#">187160</a>	Build: 7.3.3.493.R01
Summary:	6900-VC ISSU upgrade failed, chassis2 rebooted thrice	
Explanation:	Spanning tree update synchronization between NI and CMM Optimized.	

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PR	<a href="#">195324</a>	Build: 7.3.3.494.R01
Summary:	Links flaps seen on 10Gig BEB switches in SPB in environment	
Explanation:	Changes to generate traps on port change events	

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PR	<a href="#">197118</a>	Build: 7.3.3.495.R01
Summary:	The "show ip ospf lsdb" always shows full lsdb, even when specific parameters are used.	
Explanation:	Changes to support display issue "show ip ospf lsdb"	

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PR	<a href="#">197200</a>	Build: 7.3.3.495.R01
Summary:	Qos ingress-bandwidth not working properly	

Explanation: Changes have been done to support "depth" option for "policy rule"

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PR [195445](#) Build: 7.3.3.496.R01

Summary: OS6900 SPB-M MAC addresses are not seen after failover-recovery and ping loss issue.

Explanation: Prevented message Corruption in sdp creation for tandem mode

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PR [196817](#) Build: 7.3.3.497.R01

Summary: vm\_insert\_page error inserting new egress buff

Explanation: Fix has been done to decrement page count while unmapping packets from tasks.

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PR [196470](#) Build: 7.3.3.498.R01

Summary: Port mirroring not working on master chassis after failover.

Explanation: Changes to support port mirroring after vc-takeover

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PR [198606](#) Build: 7.3.3.503.R01

Summary: SPB-M adds VLAN tag 4095 for an untagged VLAN traffic when one link of SAP linkagg goes down.

Explanation: Handling the hardware properly during sap purge event

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PR [191665](#) Build: 7.3.3.463.R01

Summary: OS6900 ICMPv6 neighbor solicitation issue.

Explanation: Packet length correction incorporated for neighbor solicitation message

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PR [193169](#) Build: 7.3.3.446.R01

Summary: ERROR: Can't mix EMP and non EMP gateways on ECMP static routes

Explanation: changes done to remove the static route which is configured in overlapping network(subnet) with EMP in non-default VRF

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PR [197364](#) Build: 7.3.3.487.R01

Summary: OS6900-T20: Virtual-Chassis not working on XNI-U12E VFL ports.

Explanation: Changes made to set MTU properly in VFL ports in U16E.

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PR [189944](#) Build: 7.3.3.491.R01

Summary: "interface ingress-bandwidth" and "interface flood-limit" deletion failed in AOS 7.

Explanation: Proper handling of interface commands during bootup

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PR [189281](#) Build: 7.3.3.505.R01

Summary: Parity errors in OS6900 running 732.413.R01 causing the switch not to learn mac-addresses properly.

Explanation: Port\_cbl\_table parity error is seen on OS6900 and packet getting dropped

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PR [194216](#) Build: 7.3.3.455.R01

Summary: OS6900 Source address of syslog process is missing

Explanation: Changes to update syslog server address during boot up

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PR [194274](#) Build: 7.3.3.455.R01

Summary: OS10k - need to increase the maximum number of sessions allowed for NTP clients

Explanation: Increased the number of NTP clients that can be associated with NTP Server. Increased the value from 64 to 128



PR	<b>191201</b>	Build: 7.3.3.438.R01
Summary:	Remote Fault Propagation is not working on OS6900.	
Explanation:	Proper operational status of RFP violation is updated	
PR	<b>191901</b>	Build: 7.3.3.440.R01
Summary:	OS10k switch crashed with generating PMD file.	
Explanation:	Memory leak in source learning task is corrected to free the memory appropriately.	
PR	<b>192432</b>	Build: 7.3.3.440.R01
Summary:	bcm rd rpcs alert message: +++ sInHwlrnCbkHandler:657 no buffer ALERT!! Error.	
Explanation:	SINi to BCM software reconnect mechanism has been optimized.	
PR	<b>192932</b>	Build: 7.3.3.435.R01
Summary:	SPB counters are not correct for ingress traffic for local SPB port	
Explanation:	Fix stats allocation issue due to mismatch in software and hardware counters; Fix stats allocation issue when linkagg flaps.	

## Problems Fixed Between Builds 506 and 598

PR	<b>196007</b>	Build: 7.3.3.506.R01
Summary:	OS6900 OSPF point-to-point neighboring issue.	
Explanation:	Change to learn neighbor dynamically in OSPF Point-to-point neighbourship	
PR	<b>197201</b>	Build: 7.3.3.507.R01
Summary:	The "^" character shifted in case of incorrect command	
Explanation:	The '^' character will be pointing to the correct position in case of wrong cli command.	
PR	<b>197921</b>	Build: 7.3.3.507.R01
Summary:	Clarification on messages in a VC "niEsmSendPortLinkQualityToCmmEsmDrv(937): firstZPort:1 lastZPort:	
Explanation:	Link-quality will be checked only when the Admin-state and Link-state are operationally UP.	
PR	<b>198799</b>	Build: 7.3.3.508.R01
Summary:	OS6900 VC crashed when it looked up for mac address with invalid vid	
Explanation:	Same mac address with invalid vid is looked up which lead to assert failure.	
PR	<b>198903</b>	Build: 7.3.3.508.R01
Summary:	OS6900-X20 crashed after authenticating the telnet client via tacacs server.	
Explanation:	From the trace, crash occurred while reading the buffer of size 570 in which the maximum size of the buffer defined is 500.	
PR	<b>199060</b>	Build: 7.3.3.509.R01
Summary:	OS6900 (7x) device OV trap listening issue	
Explanation:	SNMP traps will be send to the configured udp port number.	
PR	<b>197409</b>	Build: 7.3.3.511.R01
Summary:	Master chassis reloaded in VC and Slave stuck in boot-monitor	
Explanation:	Disabled sysrq utility to avoid kernel crash	



PR	<b>199508</b>	Build: 7.3.3.516.R01
Summary:	E_Port Proxy Mode not working on OS6900.	
Explanation:	Periodic MDS will be sent until VE capable FCF has MAX fcoe frame is verified	
PR	<b>199566</b>	Build: 7.3.3.516.R01
Summary:	Ethernet-Services VPAs missing after booting up.	
Explanation:	Ethernet-Services VPA will be associated across reboot.	
PR	<b>197694</b>	Build: 7.3.3.517.R01
Summary:	OS6900: *** buffer overflow detected ***: /bin/etherCmm terminated.	
Explanation:	Buffer overflow has been handled by incrementing the buffer size	
PR	<b>200088</b>	Build: 7.3.3.520.R01
Summary:	UNP information not displayed due to the issue in "alaDaMacVlanUserTable" mib.	
Explanation:	Changes done to display correct unp information	
PR	<b>189845</b>	Build: 7.3.3.520.R01
Summary:	slCmm library(plApi) error(2) plGetChassisSlotPortFromGport@1324: Invalid port type 2 (gport 0x20000	
Explanation:	Proper Linkagg and Default port validations are taken care	
PR	<b>201018</b>	Build: 7.3.3.528.R01
Summary:	PGM controls packets dropped by the switch	
Explanation:	Allow re queue operation for slowpath packets	
PR	<b>201197</b>	Build: 7.3.3.531.R01
Summary:	Unable to reach the directly connected Gateway from switch after disabling SPB sap config	
Explanation:	On deleting SAP, delete vlan translation for the port in Hardware only when it's not associated with other services and SAP	
PR	<b>201280</b>	Build: 7.3.3.535.R01
Summary:	OS6900: "modify running-directory" clarification	
Explanation:	conditional check added to display error for "modify running-directory"	
PR	<b>200511</b>	Build: 7.3.3.536.R01
Summary:	ISSU upgrade failed with OS6900 X40 with OS-XNI-U12 VFL uplink	
Explanation:	stpNi connecting mechanism with stpCmm during vc-takeover process optimized to have retry mechanism.	
PR	<b>201235</b>	Build: 7.3.3.537.R01
Summary:	IP Traffic routing/forwarding done even after configuring the "no forward" for an IP Interface.	
Explanation:	Route entries not added in hardware for no forward interface	
PR	<b>199077</b>	Build: 7.3.3.542.R01
Summary:	Sflow sampling rate caused NI reboot and backoff algorithm activation	
Explanation:	Correction for Sflow backoff algorithm.	
PR	<b>189003</b>	Build: 7.3.3.543.R01
Summary:	SNMPWALK shows incorrect port number	

Explanation: Code changes has been done to display the base port in which Mac-address gets learned instead of its gport

PR [199391](#) Build: 7.3.3.545.R01

Summary: OS6900-VC rebooted on 09-Oct-2014 and after a week Slave unit crashed with USB task.

Explanation: The system may crash when USB is extracted without disabling USB with the command usb disable. A warning message is now displayed when enabling USB (CAUTION: Do "usb disable" before removing usb.). A new option has been added to mount the USB in a sync mode usb enable mode sync, hence allowing the USB to be extracted without disabling USB first. In this mode, the write operations to USB are slower

PR [199019](#) Build: 7.3.3.545.R01

Summary: QoS Port not functioning correctly in OS6900

Explanation: New CLI has been added for the QoS per port Ingress depth and Egress Depth.

PR [201715](#) Build: 7.3.3.553.R01

Summary: 22 seconds packet drop seen when the power is removed from the master unit in VC

Explanation: Do not include inactive ports in graceful restart process

PR [202302](#) Build: 7.3.3.557.R01

Summary: How to disable the DCBX LLDP messages without installing the data-center license in OS6900?

Explanation: Check for dcbx status before handling dcbx data

PR [201876](#) Build: 7.3.3.558.R01

Summary: Connectivity issue between switches when VLANs are mapped to MSTI 1.

Explanation: To calculate logical ports properly and sent for validation before writing VPA.

PR [202566](#) Build: 7.3.3.561.R01

Summary: Link quality messages flooding the OS6900-T models.

Explanation: Avoided Link quality messages flooding in OS6900-T models

PR [202995](#) Build: 7.3.3.567.R01

Summary: NTP configuration is not getting applied

Explanation: "ntp authentication enable" command is applied last in configuration

PR [202774](#) Build: 7.3.3.568.R01

Summary: VC of 2 OS6900 witches rebooted suddenly during production hours

Explanation: During ipni debugging, one of the swlog message was crashing due to invalid number of arguments to a function call. Fixed now.

PR [202466](#) Build: 7.3.3.570.R01

Summary: Chassis 2 detached away from VC of 6. RCA needed.

Explanation: Code fix to prevent the high memory usage of capMan process

PR [202255](#) Build: 7.3.3.570.R01

Summary: After configuring port mapping on OS6900-VC slot-1 stops forwarding the traffic.

Explanation: Added a mechanism to resend the config across all Nis.

PR [202873](#) Build: 7.3.3.572.R01

Summary: OS6900 switch crashed due to SaaCMM task

Explanation: Conditional check added to avoid crash due to saaCmm.

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PR [203325](#) Build: 7.3.3.577.R01

Summary: In "ntp src-ip preferred" Loopback0 is not allowed

Explanation: Change to support NTP server use loopback0 as source IP if configured.

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PR [203354](#) Build: 7.3.3.577.R01

Summary: Getting vcboot.cfg.err file after the reboot when "usb enable" is configured.

Explanation: usb enable command will not throw error across reboot.

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PR [203404](#) Build: 7.3.3.583.R01

Summary: interface information not updated in kernel if emp address is on the same subnet of vlan interface

Explanation: vlan interface will be removed if conflicts with the slave's emp interface on boot up

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PR [203735](#) Build: 7.3.3.585.R01

Summary: +++ iprmIntfEnable: Failed to find IPv4 interface 4118EMP

Explanation: Create EMP-VC interface when it comes UP

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PR [203344](#) Build: 7.3.3.587.R01

Summary: Issue while configuring speed as 100Mbps on OS-XNI-T8 module connected on OS6900VC.

Explanation: Fix was done to check and set speed based on the port type.

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PR [200827](#) Build: 7.3.3.551.R01

Summary: The "^" character shifted in case of "?"

Explanation: Corrected the issue in positioning ^ for the help condition in cli commands

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PR [204152](#) Build: 7.3.3.597.R01

Summary: Default route is preferred instead for black hole ip static route

Explanation: Install reject route hardware so that the packets can be dropped in hardware

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PR [201127](#) Build: 7.3.3.532.R01

Summary: DHCP clients connected to slave chassis not getting ip addresses on OS6900 VC.

Explanation: Supporting DHCP client connected in slave chassis to get IP

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PR [201139](#) Build: 7.3.3.533.R01

Summary: OS6900 show log swlog timestamp command issue

Explanation: corrections made while implementing the swlog timestamp checks

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PR [199470](#) Build: 7.3.3.518.R01

Summary: OS6900: MDNS packet showing as DOS attack, need to check whether switch can suppress this specific pa

Explanation: Do not generate DOS trap for mDNS packets.

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PR [200502](#) Build: 7.3.3.527.R01

Summary: OS6900 crash after SPB configuration- swlog: COREDUMPER alarm(1) Dumping core for task svcCmm

Explanation: Fix done to handle the buffer properly to hold the length of the description upto 80 in SPB command for display in snapshot

PR	<b>198934</b>	Build: 7.3.3.515.R01
Summary:	OS6860 tail .bash_history command disclose the username/passwords	
Explanation:	Command line containing password will not be stored in bash history.	
PR	<b>198469</b>	Build: 7.3.3.545.R01
Summary:	OS6900 we get the error message in swlog ipcmd library(plApi) error(2) plGetIfIndexFromGport@1617 f	
Explanation:	Handled the case for Internal gport.	
PR	<b>197398</b>	Build: 7.3.3.526.R01
Summary:	HA-VLAN dropping packets when crossing the VFL	
Explanation:	HAVLAN L3 Loopback feature is added for 6900.	
PR	<b>187628</b>	Build: 7.3.3.539.R01
Summary:	OS6900: snmpget of oid returns next entry in table instead of correct one.	
Explanation:	snmpget was returning internal gport instead of the user port, fixed	
PR	<b>202896</b>	Build: 7.3.3.579.R01
Summary:	OS6900 issue with qos policy for TCP traffic	
Explanation:	Correctly set-up the qos range checks in hardware	
PR	<b>203169</b>	Build: 7.3.3.587.R01
Summary:	Switch Suddenly stopped sending out traps	
Explanation:	Change has been done to close the file descriptor properly in reactor socket to avoid fd leak.	
PR	<b>198678</b>	Build: 7.3.3.507.R01
Summary:	Udp Relay CMM logs clarification in OS6900.	
Explanation:	Changed the logging level for udpRelay messages	
PR	<b>203600</b>	Build: 7.3.3.582.R01
Summary:	VC is not reachable via 0.0.0.0/0 route in case EMP is down	
Explanation:	Fix done to remove routes on emp port in kernel stack if emp is down	
PR	<b>202736</b>	Build: 7.3.3.563.R01
Summary:	OS6900 linkflapping with network outage.	
Explanation:	If the port or linkagg is configured as ACCESS port, then that port will not be part of Auto Fabric Detection.	
PR	<b>198963</b>	Build: 7.3.3.550.R01
Summary:	Virtual Chassis crash/reboot during a Juniper Firewall failover test with memory error message in lo	
Explanation:	improvements done to avoid unnecessary pruning	
PR	<b>201881</b>	Build: 7.3.3.547.R01
Summary:	NTP Vulnerability query - CVE-2014-9293 CVE-2014-9294 CVE-2014-9295 CVE-2014-9296 CVE-2013-5211	
Explanation:	Code changes done to fix NTP vulnerabilities CVE-2014-9295 & CVE-2013-5211. Other vulnerabilities (CVE-2014-9293,CVE-2014-9294,CVE-2014-9296) do not affect AOS.	

PR	<b>199051</b>	Build: 7.3.3.531.R01
Summary:	OS6900 admin password changes do not sync up across VC	
Explanation:	Password changed in master chassis should get reflected on slave chassis in a VC.	
PR	<b>198494</b>	Build: 7.3.3.509.R01
Summary:	Need OID for healthModuleCpuLatest in 7.X code for OV2500.	
Explanation:	MIB "healthModuleCpuLatest" has been added to 7x	
PR	<b>197171</b>	Build: 7.3.3.524.R01
Summary:	(MC-LAG + OS10K) L3 bit not set for VRRP MAC in hardware in VRRP Master after takeover.	
Explanation:	Do not process the remote mac delete request for VRRP router MAC on the VRRP Master switch	
PR	<b>198108</b>	Build: 7.3.3.510.R01
Summary:	MIB for retrieving the UNP information is not available to display in the unp information in VM mana	
Explanation:	Fix done to avoid processing the Inindex[0] value when indexcount is 0	
PR	<b>203072</b>	Build: 7.3.3.582.R01
Summary:	Getting message "+++ smgrPmSetPortProperty@907"	
Explanation:	Handled check while configuring network ports as service access ports.	
PR	<b>203355</b>	Build: 7.3.3.581.R01
Summary:	SYSLOG messages are sent inband using EMP interface	
Explanation:	Loopback0 IP will be used as source IP when swlog message are sent to data socket output.	
PR	<b>199426</b>	Build: 7.3.3.513.R01
Summary:	UNP vlan-xlation config missing in boot.cfg & missing after reboot	
Explanation:	For CLI Command unp spb-profile params vlan-xlate and multicast-mode changes are incorporated in snapshot.	
PR	<b>200624</b>	Build: 7.3.3.528.R01
Summary:	Open flow queue statistics with OS 6900 and OS 6860	
Explanation:	Send reply message for config request from controller	
PR	<b>200480</b>	Build: 7.3.3.551.R01
Summary:	OS6860: Not able to configure interface ALIAS using port range.	
Explanation:	Fix done to change the mipindexlength and passing input to the mipindex dynamically based on the number of ports.	

## Problems Fixed Between Builds 599 and 646

PR	<b>203375</b>	Build: 7.3.3.607.R01
Summary:	OS6900 high CPU causing network down	
Explanation:	For ports configured as Linkagg, Vlan is associated only if the port is attached to the configured Linkagg.	

---

PR	<a href="#">203835</a>	Build: 7.3.3.608.R01
Summary:	IP interface DOWN and BFD session associated with this interface UP	
Explanation:	Fix done to clear OSPF bitmap before deleting stale bfd sessions	

---

PR	<a href="#">203980</a>	Build: 7.3.3.608.R01
Summary:	Incorrect error message when setting autoneg on T8 NI	
Explanation:	Removed the invalid port display in Error Message.	

---

PR	<a href="#">204282</a>	Build: 7.3.3.608.R01
Summary:	OS6900 VRRP Dual Master Issue.	
Explanation:	Fix done to update VRRP packet when VRRP comes to initialize state	

---

PR	<a href="#">203849</a>	Build: 7.3.3.608.R01
Summary:	VC takeover allowed before VC goes into L8	
Explanation:	Changes done not to allow vc-takeover while bringing up slave chassis user ports after system ready.	

---

PR	<a href="#">204189</a>	Build: 7.3.3.609.R01
Summary:	OS6900 T model having issue in USB management.	
Explanation:	In OS6900 T Model, USB will not throw Permission Denied Error.	

---

PR	<a href="#">204114</a>	Build: 7.3.3.610.R01
Summary:	The command "show ip bgp policy prefix-list" fails to display the output once in every 3 times.	
Explanation:	Fix the display issue with "show ip bgp policy prefix-list" CLI output	

---

PR	<a href="#">203842</a>	Build: 7.3.3.610.R01
Summary:	EMP routes down after removing an EMP interface	
Explanation:	Move the static routes to an active EMP when primary EMP is removed	

---

PR	<a href="#">203394</a>	Build: 7.3.3.610.R01
Summary:	ChassisSupervisor SharedMem Sync info(5) messages continuously logged in swlog of OS6900 VC	
Explanation:	Code changes done to update the CMM operational status properly once the system reaches the ready state	

---

PR	<a href="#">203680</a>	Build: 7.3.3.612.R01
Summary:	ISIS-VC unable to detect the peer disconnection in the topology.	
Explanation:	Debug addition for VC-6	

---

PR	<a href="#">204583</a>	Build: 7.3.3.615.R01
Summary:	OSPF adjacencies down after a VC takeover in case BFD is enabled	
Explanation:	After vc-takeover linkagg will not go to blocking state.	

---

PR	<a href="#">204786</a>	Build: 7.3.3.616.R01
Summary:	Route leaking issue layer 3 VPN SPB.	
Explanation:	Don t resolve ARP for interface IP, in the VRF where the interface exists	

---

PR	<a href="#">205155</a>	Build: 7.3.3.618.R01
Summary:	OS6900: High CPU with IPCMMD task.	



Explanation: Check the arplist only if the corresponding interface is up

---

PR [205441](#) Build: 7.3.3.619.R01  
 Summary: OS6900 - Bvlan having issues while creating through OV -one touch SPB  
 Explanation: update counter while changing bvlan type and to check bvlan type while assigning mtu.

---

PR [205526](#) Build: 7.3.3.621.R01  
 Summary: OS6900 Slave4 crashed for multiple applications - Analysis required.  
 Explanation: In VC, each chassis port information will be properly synced with all other chassis.

---

PR [204531](#) Build: 7.3.3.625.R01  
 Summary: ARP Poison not working in OS 10K  
 Explanation: Learn arp from the received GARP REPLY packets

---

PR [205749](#) Build: 7.3.3.625.R01  
 Summary: Need analysis for the NI crash on OS10K  
 Explanation: Code change has been done to display the MAC address properly.

---

PR [201500](#) Build: 7.3.3.626.R01  
 Summary: Authentication is not working after entering incorrect password for more than 3 times.  
 Explanation: Debug improvement for RADIUS- AAA communication issue

---

PR [197683](#) Build: 7.3.3.629.R01  
 Summary: After a powering up the OS6900 6xVC chassis 3 didn't come up in VC mode.  
 Explanation: Chassis will not go to failure shutdown mode during an abnormal reboot.

---

PR [205498](#) Build: 7.3.3.635.R01  
 Summary: 4XOS6900: Chassis 2 in VC was crashed  
 Explanation: Soft Error Recovery will recover the Parity Error in CPU port.

---

PR [205148](#) Build: 7.3.3.647.R01  
 Summary: Alcatel-Lucent OmniSwitch Web Interface Cross-Site Request Forgery, CVE-2015-2805  
 Explanation: Vulnerability has been fixed.

### Under Verification:

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PR [182249](#) Build: 7.3.3.62.R01  
 Summary: IGMP packets receives on Omni switch port which is not a part of specific VLAN.  
 Explanation: Switch may trap a packet to CPU prior to the vlan port association check in the HW, add check in pkt\_drv for all IP and IPv6 packets for this condition and prevent processing of this packet.

---

PR [182258](#) Build: 7.3.3.62.R01  
 Summary: After reload of OS6900 VC setup ldap configuration is missing  
 Explanation: Merging change 179918(7.3.3.R01) to propagate correct parameters for ldap-server option, hash-key to 7.3.2.R01



PR	<b>184338</b>	Build: 7.3.3.333.R01
Summary:	OS 10K fans working at 85 % after upgrade to 7.3.1.748	
Explanation:	Resetting the default temperature of NI/Slot, if NI is removed.	
PR	<b>184070</b>	Build: 7.3.3.338.R01
Summary:	System Time zone for South Africa or Disabling DST	
PR	<b>186299</b>	Build: 7.3.3.338.R01
Summary:	Unnecessary DHCP Offer / Ack packets received from OmniSwitch.	
Explanation:	If FORWARD_PER_VLAN is configured and the Next Hop address is not Configured then DHCP_REP gets dropped	
PR	<b>186988</b>	Build: 7.3.3.346.R01
Summary:	OS6900: High CPU caused by port-monitoring pmmcmd task.	
Explanation:	Implementation of Reconnect of Socket in case of failure	
PR	<b>187461</b>	Build: 7.3.3.372.R01
Summary:	10K-VC ISSU upgrade failed	
Explanation:	Changed ISSU timeout to 12 minutes	
PR	<b>188694</b>	Build: 7.3.3.388.R01
Summary:	snmp traps for ipv6 snmp station uses udp port 161.	
Explanation:	SNMP traps for ipv6 snmp trap station will default uses udp port 162.	
PR	<b>188346</b>	Build: 7.3.3.396.R01
Summary:	stpni_printStats table - code changes needed in order to print the local port number.	
Explanation:	stpni_printStats table display has been fine tuned	
PR	<b>187638</b>	Build: 7.3.3.436.R01
Summary:	In specific scenario, svcCmm generated pmd.	
Explanation:	Crash due to usage of long string as description in service spb sap configuration is fixed.	
PR	<b>193666</b>	Build: 7.3.3.438.R01
Summary:	Traffic was down about 80seconds during staggered Upgrade from 7.3.2 to 7.3.3.384R01 or 7.3.3.434R01	
Explanation:	If the ports are enabled as part of vcof2-upgrade procedure, then do not apply the 120 seconds delay in bringing up the user ports.	
PR	<b>191308</b>	Build: 7.3.3.443.R01
Summary:	In OS6900 running 7.3.2.439, the command vrrp delay is not taking effect.	
Explanation:	User configured VRRP delay is applied during bootup	
PR	<b>188746</b>	Build: 7.3.3.446.R01
Summary:	lldpCmm library(plApi) error(2) plGetIfIndexFromBasePort@1649: Get port info (basePort 40000055)	
Explanation:	During snmp walk, lldp will not display error in swlog.	
PR	<b>190038</b>	Build: 7.3.3.455.R01
Summary:	OS10K crashing because of BGP task.	
Explanation:	Crash due to a null community string and proper checks added for the same.	

PR	<b>191494</b>	Build: 7.3.3.459.R01
Summary:	10K-VC : invalid IP state	
Explanation:	Generation for few Internal IP Interface events for VC VFL ports is restricted.	
PR	<b>191586</b>	Build: 7.3.3.461.R01
Summary:	OS6900-X20 Crash-Vrrp was not working after crash.	
Explanation:	Error handling in port validation of UDP Module introduced	
PR	<b>195083</b>	Build: 7.3.3.468.R01
Summary:	OpenSSL vulnerability CVE-2014-0224 and CVE-2014-0160	
Explanation:	OpenSSL vulnerability CVE-2014-0224 and CVE-2014-0160 has been handled.	
PR	<b>189190</b>	Build: 7.3.3.471.R01
Summary:	show license info is blank after reload of OS6900 VC-732.R01	
Explanation:	Fix done for the show license-info display issue	
PR	<b>188675</b>	Build: 7.3.3.473.R01
Summary:	OS6900 switch getting rebooted very often and pmd generated.	
Explanation:	The scenario in which ARP for PBR gateway IP getting resolved in software instead of hardware is handled.	
PR	<b>195049</b>	Build: 7.3.3.483.R01
Summary:	Connectivity issue from an edge switch to reach servers connected to OS10K.	
Explanation:	Linkagg member port moving to attached state optimized.	
PR	<b>195626</b>	Build: 7.3.3.484.R01
Summary:	DHCP-Relay issue on OS6900.	
Explanation:	Changing DHCP offer packet as Broadcast(L2).	
PR	<b>195502</b>	Build: 7.3.3.484.R01
Summary:	ACK packet from the PXE server is getting dropped by OS10K	
Explanation:	Classifying UDP packet to DHCP by checking both source and destination UDP port numbers.	
PR	<b>199440</b>	Build: 7.3.3.514.R01
Summary:	Vulnerability in SSLv3 (POODLE / CVE -2014- 3566)	
Explanation:	Disable SSLv3 to mitigate POODLE attack	
PR	<b>193883</b>	Build: 7.3.3.521.R01
Summary:	OS10k specific static routes not installed at Ni level	
Explanation:	Request routes from iprm if route addition has failed due to interface routes not being programmed	
PR	<b>198831</b>	Build: 7.3.3.534.R01
Summary:	6900 LACP not loaded	
Explanation:	Socket recovery mechanism added in case of socket connectivity failure between lagCmm with lacpNi and CLI Mip Gateway.	
PR	<b>188441</b>	Build: 7.3.3.538.R01
Summary:	OS10K is not forwarding the DHCP relayed unicast packet received on the VFL.	

Explanation: Code changes to handle software processing for DHCP relayed unicast packet received on theVFL.

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PR [201228](#) Build: 7.3.3.546.R01

Summary: Unable to check the memory status for the port connected on the slave chassis

Explanation: addressed the issue while displaying the health status of the port

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PR [201111](#) Build: 7.3.3.546.R01

Summary: "debug \$(pidof vrrp) "call vrrplgnoreVrid(0,70)" command to ignore unwanted VRRP packets not active

Explanation: "debug vrrp set ignoreVrrpVrid <VRID>" added to CLI

---

PR [201113](#) Build: 7.3.3.546.R01

Summary: Not possible to disable the command "debug \$(pidof vrrp) call vrrplgnoreVrid(0,70)" at runtime.

Explanation: "debug vrrp set resetIgnoreVrrpVrid <vrid>" added to CLI

---

PR [193481](#) Build: 7.3.3.548.R01

Summary: OS6900 automatically rebooted.

Explanation: Close open port 13002 for QoSMM

---

PR [201488](#) Build: 7.3.3.550.R01

Summary: Configured L2 server-cluster(HA-VLAN), IGMP joins/reports not processed

Explanation: Correct the priority of havlan hardware entries, so that IGMP traffic doesn't match the HAVLAN hardware entries but correctly match IGMP entries

---

PR [202864](#) Build: 7.3.3.618.R01

Summary: OS10K: Write memory not successful and display "Please wait"

Explanation: Handled DEFERRED case properly to avoid please wait issues in slCmm.

---

PR [203275](#) Build: 7.3.3.625.R01

Summary: OS10k Switch got crashed after mounting the USB in the OS10k switch.

Explanation: Fix done to avoid the System crashing when an invalid/damaged USB is inserted into the system.

---

PR [202815](#) Build: 7.3.3.627.R01

Summary: OS6900 display issue in web view

Explanation: Fix done to display all the images in the flash properly

---

PR [204834](#) Build: 7.3.3.628.R01

Summary: Impact analysis on our products with CVE-2015-0291 t1\_lib.c in OpenSSL 1.0.2.

Explanation: Code changes done to fix openSSL vulnerabilities CVE-2015-0287, CVE-2015-0289, CVE-2015-0292, CVE-2015-0209, CVE-2015-0288

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PR [183742](#) Build: 7.3.3.106.R01

Summary: OS6900: Frame Loss on traffic across Virtual Fabric Link

Explanation: Ignore the TEMP flag when comparing arp flags.

---

PR [206158](#) Build: 7.3.3.631.R01

Summary: Chassis 1 crash (VC of 4) after issuing debug command. refer to PR#205526

Explanation: Linkagg debug information has been added as a part of show tech-support eng.

---

PR	<b>202556</b>	Build: 7.3.3.576.R01
Summary:	6900 switch up time resets to 0 after up time of 497.1 days without reboot.	
Explanation:	Correct the discrepancies between kernel uptime and uptime in show system o/p.	

---

PR	<b>203380</b>	Build: 7.3.3.581.R01
Summary:	Logs appeared after re-set the uptime "ChassisSupervisor CS Main info(5) CSP_SetChassisMode mode 2 -	
Explanation:	After 497.10 days, the swlog will not be flooded with the synchronization message.	

---

PR	<b>204685</b>	Build: 7.3.3.630.R01
Summary:	Slave unit in a VC trying to establish TCP connection to the BGP neighbour	
Explanation:	Do not initiate TCP connection to BGP neighbor from Slave chassis	

---

PR	<b>206776</b>	Build: 7.3.3.638.R01
Summary:	Switch crashed due to IPRM task	
Explanation:	Route addition and deletion during interface toggling has been handled properly.	

---

PR	<b>200889</b>	Build: 7.3.3.538.R01
Summary:	OS6900 svlan configuration is not getting saved in configuration.	
Explanation:	Svlan configuration snapshot issue has been fixed	

---

PR	<b>180081</b>	Build: 7.3.3.42.R01
Summary:	wants to see the traps On Console prompt	
Explanation:	added "debug trap display" feature command to see the traps On Console prompt	

---

PR	<b>181043</b>	Build: 7.3.3.23.R01
Summary:	Not all the LACP ports seen during MIB walk.	
Explanation:	Check added to check for the received OID during MIB walk.	

---

PR	<b>181453</b>	Build: 7.3.3.16.R01
Summary:	switch getting healthModuleMemory1MinAvg	
Explanation:	MIB index for VC has been expanded	

---

PR	<b>195978</b>	Build: 7.3.3.484.R01
Summary:	Dynamic routes learned via ospf missing after Issu upgrade	
Explanation:	Debug counters added during ospf addition to check the missing action.	

---

PR	<b>195576</b>	Build: 7.3.3.488.R01
Summary:	VC is working fine on the network but 3 6900 T40 switches connected to this VC has a wired behavior.	
Explanation:	The phy polling duration is increased as required for the T40 switch.	

---

PR	<b>187493</b>	Build: 7.3.3.536.R01
Summary:	The OAM Loopback displays "100% packet loss" and Link trace displays "ERROR: LTR Entry does not exist " after 10K reboots.	
Explanation:	Populate lagg gport in auto-mip upon bootup	

---

PR	<b>189005</b>	Build: 7.3.3.529.R01
Summary:	Unable to ping Loopback0 of OS6900 from OS6850	

Explanation: The Loopback0 list lookup was missing in the IP driver and was properly added.

---

PR **187931** Build: 7.3.3.472.R01  
 Summary: Need crash analysis on OS6900 in VC setup  
 Explanation: Crash while processing Linkagg packet is fixed.

---

PR **194452** Build: 7.3.3.460.R01  
 Summary: Unable to set SLB hashing to SRC-IP for SLB.  
 Explanation: SLB hashing options were modified to be inline with the CLI

---

PR **192436** Build: 7.3.3.442.R01  
 Summary: OS6900T-VC-In specific scenario vc-takeover caused new Master go into shutdown state.  
 Explanation: Deadlock in etherNI task is fixed now.

---

PR **184659** Build: 7.3.3.203.R01  
 Summary: Ethertype displayed in decimal

---

PR **205472** Build: 7.3.3.638.R01  
 Summary: SES AAA error(2) ...while communicating with AAA at 127.2.65.1:21288  
 Explanation: AAA will send session status details to the Session Manager.

---

PR **204463** Build: 7.3.3.637.R01  
 Summary: An out prefix list for BGP doesn't filter any prefixes  
 Explanation: BGP prefix list without le or ge options will accept default route only.

---

PR **198841** Build: 7.3.3.539.R01  
 Summary: BGP route for multi-hop neighbor learnt correctly but IPRM shows incorrect gateway for this route.  
 Explanation: BGP route for multi-hop neighbor learnt correctly and IPRM shows correct gateway for this route.

---

PR **200589** Build: 7.3.3.539.R01  
 Summary: 10K-VC: After inserting new CMM-A in Slave chassis "C11", Master chassis crashed and Traffic losses  
 Explanation: During VC-takeover, the MIP message timeout of confd process is reduced to 2 Minutes.

---

PR **182814** Build: 7.3.3.112.R01  
 Summary: DNS is not working on OS6900  
 Explanation: Forward UDP port allow messages to peers

---

PR **196724** Build: 7.3.3.509.R01  
 Summary: Unable to ping VRIP address form master router.  
 Explanation: Ping issues to VRIP address from Master router has been fixed

---

PR **197698** Build: 7.3.3.544.R01  
 Summary: Traffic is getting dropped during the VC takeover  
 Explanation: eoamNi task getting primaryCmm IP During Takeover corrected.

---

PR **187323** Build: 7.3.3.538.R01  
 Summary: Switch crashed during stpNi initialization.

Explanation: stpNi crash has been fixed

---

PR [190572](#) Build: 7.3.3.420.R01

Summary: OS6900 errors seen frequently: ipni arp info(5) arp info overwritten messages

Explanation: With sflow configured, arp will be properly learned on the corresponding ports.

---

PR [193228](#) Build: 7.3.3.454.R01

Summary: In 6900 ChassisSupervisor Power Mgr alert message: PS 1 reported down error

Explanation: Retry Mechanism is implemented in i2cMgrHwProcessMsg during intermittent i2c bus error

---

PR [194265](#) Build: 7.3.3.539.R01

Summary: Tx Lost frames increasing on the VFL links of OS6900 VC after the reload of switches.

Explanation: Removed command "virtual-chassis chassis-id <chassis-id> vf-link <vfl-id> default-vlan <vid>.

---

PR [192493](#) Build: 7.3.3.509.R01

Summary: OS6900 - Incorrect DDM display when port is admin down

Explanation: Fix provided to show infinity when port is admin down

---

PR [186592](#) Build: 7.3.3.298.R01

Summary: 10K/6900 VC - log flooding console session after ISSU upgrade or vc-takeover

Explanation: Proper handling of error condition in STP socket

---

PR [204272](#) Build: 7.3.3.614.R01

Summary: OS6900-VC: Master-Chassis-1 crashed with bcmd task.

Explanation: Integrated BCM patch for crash due to parity check.

---

PR [207508](#) Build: 7.3.3.639.R01

Summary: [6900 VC, NLB] Traffic to VIP coming from different VRF than default, is dropped by the VFL

Explanation: In NLB with Loopback enabled, inter-vrf traffic is properly handled.

---

PR [200847](#) Build: 7.3.3.542.R01

Summary: IPRM not advertising the OSPF ECMP changes correctly to BGP.

Explanation: Checking iprm for the route exists before deleting the network route

---

PR [201048](#) Build: 7.3.3.624.R01

Summary: Unable to authenticate SSH using the TACACs server and PAM: pam\_open\_session(): Have exhausted maxim

Explanation: To calculate correct server timeout while deleting pending transactions from list.

---

PR [199396](#) Build: 7.3.3.531.R01

Summary: portmgrcmm library(plApi) error(2)

Explanation: Few swlog level changed from error to debug.

---

PR [198549](#) Build: 7.3.3.536.R01

Summary: Implement TRAP/ SWLOG notification upon failure to add MAC due to TABLE FULL/ BUCKET FULL conditions

Explanation: Code Changes have been done to Enable Notification when hash collision happens due to TABLE FULL/ BUCKET FULL



PR	<a href="#">198293</a>	Build: 7.3.3.546.R01
Summary:	QOS Inbound issue - ARP packets getting dropped	
Explanation:	In MC-Lag setup, for packets reaching the CPU the policy condition with source port or destination port will be matched in the software context.	
PR	<a href="#">198357</a>	Build: 7.3.3.524.R01
Summary:	Loss of OSPF adjacency during OSPF configuration in OS10k switch	
Explanation:	Creation of OSPF interface is restricted. OSPF interface creation not allowed when VLAN is not associated with the IP Interface	
PR	<a href="#">187165</a>	Build: 7.3.3.328.R01
Summary:	ChassisSupervisor fan & temp Mgr info(5) temperature 67 <= 74, lower fan_load to 55%	
Explanation:	Fan curve table has been updated with the proper high temperature values	
PR	<a href="#">192308</a>	Build: 7.3.3.419.R01
Summary:	OS6900: TCP port 179 display issue.	
Explanation:	Show tcp ports will properly display the TCP statistics.	
PR	<a href="#">193399</a>	Build: 7.3.3.511.R01
Summary:	OS10k : Malformed /BAD FCS - STP BPDUs sent out from the 10 gig ports	
Explanation:	STP Packet size optimized to send exact size.	
PR	<a href="#">184425</a>	Build: 7.3.3.224.R01
Summary:	ARP Enhancement.	
Explanation:	Improve efficiency of processing netlink arp messages	
PR	<a href="#">205211</a>	Build: 7.3.3.621.R01
Summary:	linkQual:POOR error message seen in logs. however it's difficult to interpret which port is having the issue from the logs	
Explanation:	Code changes done to print the port information in slot/port format.	
PR	<a href="#">203666</a>	Build: 7.3.3.586.R01
Summary:	OS6900 issues with FCOE E-tunnel mode. Reference PR# 199508	
Explanation:	The show command will properly display the session state.	
PR	<a href="#">202979</a>	Build: 7.3.3.610.R01
Summary:	Error while configuring the interface alias with white space in the description field and shortening	
Explanation:	Fix done to handle cli when string contains spaces during auto-fill of first word	
PR	<a href="#">201101</a>	Build: 7.3.3.572.R01
Summary:	PVST+ length differs from third party hardware length 50 and Alcatel is 49.	
Explanation:	The Length of the PVST packet will be 50 Bytes.	
PR	<a href="#">201294</a>	Build: 7.3.3.550.R01
Summary:	HA-VLAN server-cluster loopback loopback in IGMP mode	
Explanation:	Don't loopback L2 cluster destined traffic due to matching L3 cluster with loopback enabled	
PR	<a href="#">182317</a>	Build: 7.3.3.338.R01
Summary:	udpRelayCmmd library(plApi) error	



Explanation: Validation addition done in port library to avoid errors

---

PR **180667** Build: 7.3.3.73.R01  
 Summary: Management ports such as Loopback, EMP, Management, etc, and routing interfaces report interface speeds at 1000 to SNMP tools.  
 Explanation: report 1Gbps for if Speed for ip interfaces on vlans

---

PR **197661** Build: 7.3.3.525.R01  
 Summary: OS6900: tx loss frames on SPB interface ports  
 Explanation: Tx Lost frames for the SPB Interface corrected.

---

PR **188623** Build: 7.3.3.538.R01  
 Summary: Possible memory leak of sINi process  
 Explanation: Memory leak in sINi fixed with debug functionality added to understand the issue in detail if the problem occurs again.

---

PR **193931** Build: 7.3.3.524.R01  
 Summary: VRRP Master router is not responding to client with correct VRRP MAC address.  
 Explanation: Code changes has been to populate the VrrpAddrMsg to peer chassis and after ipcmmNiBcastMsg is called.

---

PR **194494** Build: 7.3.3.455.R01  
 Summary: 10K-VC is not sending logs to Syslog server because it is using a wrong IP@ as the source  
 Explanation: Syslog server source address is recalculated during EMP interface UP/DOWN.

---

PR **192184** Build: 7.3.3.446.R01  
 Summary: Ni 8 crashed with PMD files  
 Explanation: Log enhancement has been added to print the stpNi socket connection "error number"

---

PR **184680** Build: 7.3.3.203.R01  
 Summary: OS6900 crashed after connecting to Nexus 5000 running NXOS v5  
 Explanation : Fixed a port indexing when peer not advertise dcbx

---

PR **184465** Build: 7.3.3.350.R01  
 Summary: 6900 VC-pair master rebooted and unable to login master  
 Explanation: vm\_insert\_page() debug and fixes from 7.X.X

---

PR **182566** Build: 7.3.3.296.R01  
 Summary: ACL action "priority" modifies 802.1p field  
 Explanation: ACL "priority" modifying 802.1p field issue has been fixed

---

PR **181648** Build: 7.3.3.92.R01  
 Summary: SPB issue: Devices are unable to access remote site if they have more than 2 SPB hops in between  
 Explanation: Interface conversion is required only if the request is from mip source

---

PR **197323** Build: 7.3.3.516.R01  
 Summary: OS6900 rebooted with generating the PMD for ipmsni and lldpNi and vlan stacking issue is seen after  
 Explanation: Corrected the logic to send VSTK VPA to Vlan manager

PR	<b>194902</b>	Build: 7.3.3.525.R01
Summary:	VC reloaded when policy based port mirroring is configured.	
Explanation:	validation performed in NI module before processing the packet	
PR	<b>188302</b>	Build: 7.3.3.472.R01
Summary:	plGetPortInfoFromBasePort@7483: Out of range VC chassis ID 3 error message seen in logs	
Explanation:	Error logs have been modified	
PR	<b>191995</b>	Build: 7.3.3.445.R01
Summary:	AOS6900 rebooted automatically, analysis required.	
Explanation:	OV querying the invalid interface is properly handled in the Ethernet CMM.	
PR	<b>193899</b>	Build: 7.3.3.464.R01
Summary:	OS6900 ISSU From 7.3.2.439 to 7.3.2.469.R01 caused INACTIVE VLAN 1	
Explanation:	Vlan inactive state issue has been fixed	
PR	<b>186545</b>	Build: 7.3.3.340.R01
Summary:	Health monitor trap doesn't mentioned the chassis number in VC	
Explanation:	show health monitor trap displays chassis number as well in VC	
PR	<b>185102</b>	Build: 7.3.3.331.R01
Summary:	OS10K VC setup getting messages in swlog. swlogd: ChassisSupervisor i2cMgrHwThread info(5) All switches report OK	
Explanation:	With only CMMB and without CMMA i2C message will not be seen in swlogs.	
PR	<b>203077</b>	Build: 7.3.3.567.R01
Summary:	DHCP Relay is not working if DHCP Server activated on a VC	
Explanation:	Ignore internal DHCP server check for downstream packets from DHCP Server.	
PR	<b>205145</b>	Build: 7.3.3.617.R01
Summary:	Daylight saving needs to be disabled for MKS (MOSCOW) time.	
Explanation:	Fix has been done to remove DST support for Moscow Time Zone (MSK). This is as per the new Russian Law. The DST enable/disable in 7x code depends on Timezone File updated in the code. It cannot be modified by user and it's based on the Timezone file updated by IANA (Internet Assigned Numbers Authority).	
PR	<b>204950</b>	Build: 7.3.3.618.R01
Summary:	SSH Vulnerability detected with OS6860 switch.	
Explanation:	Added CLI "ssh strong-ciphers/strong-hmacs enable/disable" to enforce ssh configs persist across reboot	
PR	<b>202371</b>	Build: 7.3.3.555.R01
Summary:	DTLS Vulnerability query - CVE-2014-3571 CVE-2015-0206	
Explanation:	Fixed openssl vulnerabilities CVE-2014-3571 CVE-2015-0206.	
PR	<b>202046</b>	Build: 7.3.3.547.R01
Summary:	NTPD Vulnerability: ntpd version 4.2.7 and previous versions allow attackers to overflow several buffers in a way that may allow malicious code to be executed	
Explanation:	Code changes done to fix NTP vulnerabilities CVE-2014-9295 & CVE-2013-5211. Other	

vulnerabilities do not affect AOS.

## Known Issues:

## New Software Features:

### 1. IGMP Proxy

**Platforms:** OS6900

**Hosted AOS SW Release:** 7.3.3.598.R01

As per current implementation, IPMS Snooping is not supported on e-service. With this enhancement IPMS Snooping would be supported on E-service in 733R01 on OS6900. With this enhancement, the Multicast clients receive continuous Multicast stream from the Multicast server over Service Provider network. Multicast can be enabled globally or at vlan level. IGMP Proxying is also supported on E-Service.

#### Usage:

#### To enable Vlan stacking and associating CVLAN and SVLAN

```

ethernet-service svlan 1001
ethernet-service service-name CustomerA svlan 1001
ethernet-service svlan 1001 nni 3/1
ethernet-service sap 10 service-name CustomerA
ethernet-service sap 10 uni 1/49
ethernet-service sap 10 cvlan 10
ethernet-service sap 10 cvlan 20

```

```

->show ethernet-service
Service Name : CustomerA
SVLAN : 1001
NNI(s) : 3/1
SAP Id : 10
UNIs : 1/49
CVLAN(s) : 10, 20
sap-profile : default-sap-profile

```

#### Enabling/Disabling Multicast globally/VLAN level

```

ip multicast admin-status {enable |disable }
ip multicast vlan 10 admin-status {enable|disable}
ip multicast version 2
ip multicast proxying enable
ip multicast vlan 10 proxying enable
ip multicast spoofing enable

```

```
ip multicast vlan 10 spoofing enable
```

**Note:** Proxying should be configured in switch near to client and querying should be configured in switch near source/server and ip interface should be created for vlan for which Multicast is enabled in querying enabled switch.

#### Enabling Querying:

```
ip multicast querying enable
ip multicast vlan 10 querying enable
```

```
-> show ip multicast
```

```
Status: = Enabled
Querying: = Disabled
Proxying: = Disabled
Spoofing: = Disabled
Zapping: = Disabled
Querier Forwarding: = Disabled
Version: = 1
Robustness: = 2
Query Interval (seconds): = 125
Query Response Interval (milliseconds): = 10000
Last Member Query Interval(milliseconds): = 1000
Unsolicited Report Interval (seconds) = 1,
Router Timeout (seconds): = 90
Source Timeout (seconds): = 30
```

#### Limitations

1. IPMS Works with Sap-profile other than default-sap, but the Multicast packets are not processed as per configured SAP-profile
2. IPMS Proxy functionality works with single querier configured per Vlan

## 2. RFP over SPB

---

**Platforms:** OS6900

**AOS SW Release:** 7.3.3.598.R01

In the earlier solution, when a link on one side of the media converter fails, the other side still continues to transmit packets, and waits for a response that will never arrive. LFPT (Link Fault Pass Through) is a troubleshooting feature that ensures, if a link fails on one side of the media converter, the media converter will force the link down on its link partner ensuring the traffic flow stop from other side. For the replacement solution, Remote fault propagation (RFP) on SPB UNI is required as an alternative function of the Media converter's link fault pass-through mechanism. Remote fault propagation will occur when one SAP interface is link down, the other will be brought down by software.

The method that shall be followed to detect/trigger the fail condition and propagate the fault, is OAM based messaging solution which uses CCM packet as information carrier medium (to carry port info, ISID info etc.).

RFP over SPB will be used to detect failure on UNI port of SPB and make the respective remote UNI port down. The method that shall be followed to detect/trigger the fail condition and propagate the fault, is OAM

based messaging solution which uses CCM packet as information carrier medium (to carry port info, ISID info etc.).

### Usage

- 1) This command is used to enable or disable RFP over SPB on CONTROL B-VLAN on BEB. This command internally creates Ethernet-OAM configuration to monitor remote BEB ISIDs information.

```
[no]service rfp <num> local-endpoint <num> { admin-state { enable | disable}} [ccm-interval { INTERVAL1S | INTERVAL1M | INTERVAL10S | INTERVAL10M | INTERVAL100MS | INTERVAL-INVALID}] {level <num>} type SPB
```

- 2) This command is used to add/delete remote end point list.

```
[no]service rfp <num> [ remote-endpoints <num/num-num> [service-id <service-id-list> ]]
```

- 3) This command is used to show local service status and its remote information.

```
show service rfp {<num>}
```

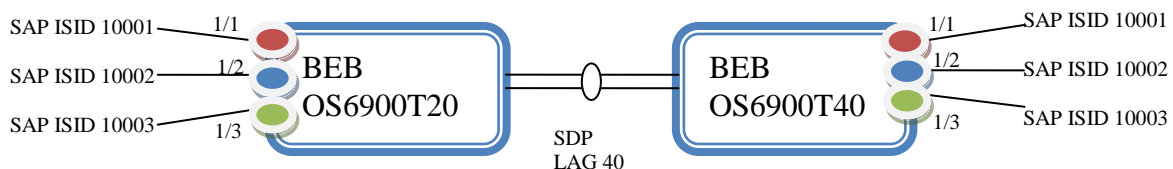
- 4) This command is used to show information about local SAP port, service ID and its binding to remote MEP.

```
show service rfp <num> local-sap-status
```

- 5) This command is used to show OAM-RFP configuration.

```
show service rfp configuration {<num>}
```

### Examples



#### OS6900-T20

```
spb bvlan 4000 admin-state enable
spb isis bvlan 4000 ect-id 1
spb isis control-bvlan 4000
spb isis interface linkagg 40
spb isis admin-state enable
```

```
service access port 1/1
service access port 1/2
service access port 1/3
```

```
service spb 10001 isid 10001 bvlan 4000 admin-state enable
service spb 10002 isid 10002 bvlan 4000 admin-state enable
service spb 10003 isid 10003 bvlan 4000 admin-state enable
service spb 10001 sap port 1/1:all admin-state enable
service spb 10002 sap port 1/2:all admin-state enable
service spb 10003 sap port 1/3:all admin-state enable
```

```
service rfp 1 local-endpoint 1 ccm-interval interval100ms level 0 type SPB
service rfp 1 remote-endpoint 2 service-id 10001-10003
```

OS6900T40

```

spb bvlan 4000 admin-state enable
spb isis bvlan 4000 ect-id 1
spb isis control-bvlan 4000
spb isis interface linkagg 40
spb isis admin-state enable

```

```

service access port 1/1
service access port 1/2
service access port 1/3
service spb 10001 isid 10001 bvlan 4000 admin-state enable
service spb 10002 isid 10002 bvlan 4000 admin-state enable
service spb 10003 isid 10003 bvlan 4000 admin-state enable
service spb 10001 sap port 1/1:all admin-state enable
service spb 10002 sap port 1/2:all admin-state enable
service spb 10003 sap port 1/3:all admin-state enable

```

```

service rfp 1 local-endpoint 2 ccm-interval interval100ms level 0 type SPB
service rfp 1 remote-endpoint 1 service-id 10001-10003

```

BEB Information

```
OS6900T20_1# show service mesh-sdp spb
```

Legend: \* denotes a dynamic object

SPB Mesh-SDP Info

SvcId	SdpId	Isid	FarEnd SysId:BVlan	Oper	Intf	FarEnd	SystemName
10001	32768:10001*	10001	e8e7.32e6.a4ad:4000	Up	0/40	OS6900T40-1	
10002	32768:10002*	10002	e8e7.32e6.a4ad:4000	Up	0/40	OS6900T40-1	
10003	32768:10003*	10003	e8e7.32e6.a4ad:4000	Up	0/40	OS6900T40-1	

```
OS6900T40_1# show service mesh-sdp spb
```

Legend: \* denotes a dynamic object

SPB Mesh-SDP Info

SvcId	SdpId	Isid	FarEnd SysId:BVlan	Oper	Intf	FarEnd	SystemName
10001	32768:10001*	10001	e8e7.32d3.4389:4000	Up	0/40	OS6900T20-1	
10002	32768:10002*	10002	e8e7.32d3.4389:4000	Up	0/40	OS6900T20-1	
10003	32768:10003*	10003	e8e7.32d3.4389:4000	Up	0/40	OS6900T20-1	

Show service rfp

```
OS6900T20_1# show service rfp
```

Please wait....

Local system (Name : SystemId) = OS6900T20-1 : e8e7.32d3.4389

Total number of services information = 3

Total number of RFP domain = 1

RFP	Remote EndPoint	RMEP Status	System (Name : SystemId)	B-VLAN	ISID Id	Service State	Admin
1	2	RMEP_OK	OS6900T40-1	e8:e7:32:e6:a4:ad	4000	10001	10001 Enabled
1	2	RMEP_OK	OS6900T40-1	e8:e7:32:e6:a4:ad	4000	10002	10002 Enabled
1	2	RMEP_OK	OS6900T40-1	e8:e7:32:e6:a4:ad	4000	10003	10003 Enabled

```
OS6900T40_1# show service rfp
```

Please wait....

Local system (Name : SystemId) = OS6900T40-1 : e8e7.32e6.a4ad

Total number of services information = 3

Total number of RFP domain = 1

RFP	Remote EndPoint	RMEP Status	System (Name : SystemId)	B-VLAN	ISID Id	Service State	Admin	
1	1	RMEP_OK	OS6900T20-1	: e8:e7:32:d3:43:89	4000	10001	10001	Enabled
1	1	RMEP_OK	OS6900T20-1	: e8:e7:32:d3:43:89	4000	10002	10002	Enabled
1	1	RMEP_OK	OS6900T20-1	: e8:e7:32:d3:43:89	4000	10003	10003	Enabled

Show service rfp <num> local-sap-status

OS6900T20\_1# show service rfp 1 local-sap-status

Please wait....

Local endpoint ID = 1

Local system (Name : SystemId) = OS6900T20-1 : e8e7.32d3.4389

Service Id	Sap	Admin	Oper	Remote Endpoint	R-Endpoint Status
10003	sap:1/3:all	Enabled	Up	2	RMEP_OK
10002	sap:1/2:all	Enabled	Up	2	RMEP_OK
10001	sap:1/1:all	Enabled	Up	2	RMEP_OK

OS6900T40\_1# show service rfp 1 local-sap-status

Please wait....

Local endpoint ID = 2

Local system (Name : SystemId) = OS6900T40-1 : e8e7.32e6.a4ad

Service Id	Sap	Admin	Oper	Remote Endpoint	R-Endpoint Status
10003	sap:1/3:all	Enabled	Up	1	RMEP_OK
10002	sap:1/2:all	Enabled	Up	1	RMEP_OK
10001	sap:1/1:all	Enabled	Up	1	RMEP_OK

Show service rfp configuration

OS6900T20\_1# show service rfp configuration

Total Number of RFP domains - 1

```

RFP Domain Number      : 1
Admin Status           : Enabled
Level                  : 0
Type                   : SPB
Maintenance Domain     : RFP_OVER_SPB_DOMAIN_LEVEL0
Maintenance Association : RFP_OVER_SPB_ASSOCIATION
Control B-VLAN         : 4000
Virtual UP MEP ID      : 1
CCM Interval           : 100 milliseconds
Remote Endpoint        :
Service Id
-----+-----
2          10001
2          10002
2          10003
    
```

RFP Violation – Port 1/4 on OS6900 T40 disconnected

OS6900T20\_1# show violation

Port	Source	Action	Reason	Timer
1/2	spb-rfp	admin down	spb-rfp	0



OS6900T20\_1# show service rfp

Please wait....

Local system (Name : SystemId) = OS6900T20-1 : e8e7.32d3.4389

Total number of services information = 3

Total number of RFP domain = 1

RFP	Remote EndPoint	RMEP Status	System (Name : SystemId)	B-VLAN	ISID Id	Service State	Admin
1	2	RMEP_OK	OS6900T40-1 : e8:e7:32:e6:a4:ad	4000	10001	10001	Enabled
1	2	RMEP_OK	OS6900T40-1 : e8:e7:32:e6:a4:ad	4000	10002	10002	Disabled
1	2	RMEP_OK	OS6900T40-1 : e8:e7:32:e6:a4:ad	4000	10003	10003	Enabled

OS6900T20\_1# show service rfp 1 local-sap-status

Please wait....

Local endpoint ID = 1

Local system (Name : SystemId) = OS6900T20-1 : e8e7.32d3.4389

Service Id	Sap	Admin	Oper	Remote Endpoint	R-Endpoint Status
10003	sap:1/3:all	Enabled	Up	2	RMEP_OK
10002	sap:1/2:all	Enabled	Violation	2	RMEP_OK
10001	sap:1/1:all	Enabled	Up	2	RMEP_OK

OS6900T40\_1# show violation

Port	Source	Action	Reason	Timer

OS6900T40\_1#

OS6900T40\_1# show service rfp

Please wait....

Local system (Name : SystemId) = OS6900T40-1 : e8e7.32e6.a4ad

Total number of services information = 3

Total number of RFP domain = 1

RFP	Remote EndPoint	RMEP Status	System (Name : SystemId)	B-VLAN	ISID Id	Service State	Admin
1	1	RMEP_OK	OS6900T20-1 : e8:e7:32:d3:43:89	4000	10001	10001	Disabled
1	1	RMEP_OK	OS6900T20-1 : e8:e7:32:d3:43:89	4000	10002	10002	Enabled
1	1	RMEP_OK	OS6900T20-1 : e8:e7:32:d3:43:89	4000	10003	10003	Enabled

OS6900T40\_1# show service rfp 1 local-sap-status

Please wait....

Local endpoint ID = 2

Local system (Name : SystemId) = OS6900T40-1 : e8e7.32e6.a4ad

Service Id	Sap	Admin	Oper	Remote Endpoint	R-Endpoint Status
10003	sap:1/3:all	Enabled	Up	1	RMEP_OK
10002	sap:1/2:all	Enabled	Down	1	RMEP_OK
10001	sap:1/1:all	Enabled	Up	1	RMEP_OK

**Scalability Measures:**

DUT	SAP	ISID	RFP Domain Count	SAP per RFP Domain	CCM Interval	Applicability
Standalone OS6900	1024	1024	2	512	NA	<i>Not Supported</i>
Standalone OS6900	512	512	2	256	NA	<i>Not Supported</i>
Standalone OS6900	256	256	2	128	100ms	<i>Supported</i>
Standalone OS6900	256	256	2	128	1s	<i>Supported</i>
Standalone OS6900	1024	1024	4	256	NA	<i>Not Supported</i>
Standalone OS6900	512	512	4	128	1s	<i>Supported</i>
Standalone OS6900	256	256	4	64	100ms	<i>Supported</i>
Standalone OS6900	256	256	4	64	1s	<i>Supported</i>
Standalone OS6900	1024	1024	8	128	1s	<i>Supported</i>
Standalone OS6900	512	512	8	64	100ms	<i>Supported</i>
Standalone OS6900	512	512	8	64	1s	<i>Supported</i>
Standalone OS6900	256	256	8	32	100ms	<i>Supported</i>
Standalone OS6900	256	256	8	32	1s	<i>Supported</i>

**Limitations**

- Maximum number of service RFP domains: 8
- Maximum number of BEBs (Virtual UP MEP) : 256
- Maximum number of local MEP (Virtual UP MEP) : 256
- Maximum number of ISID per service RFP domain: 128
- Maximum number of service RFP with CCM interval 100ms: 2
- With CCM interval 100ms, the maximum number of BEBs (Virtual UP MEP) in the SPB network is 16
- Service RFP and Ethernet OAM share the same limits
  - Number of MD: 8
  - Number of MA: 128
  - Number of MEP: 256

If the user already reached either one of above for regular Ethernet-OAM, then RFP over SPB will not be enabled and vice versa

- Reserved MD/MA names for service RFP domains cannot be used in Ethernet OAM  
Reserved MD name is RFP\_OVER\_SPB\_DOMAIN\_LEVELx (x = 0..7)  
Reserved MA name is: RFP\_OVER\_SPB\_ASSOCIATION
- AOS will send Unicast CCM to each BEBs in the SPB domain. This may result in more number of packets in the SPB network.
- It is recommended to have only point-to-point connection in a RFP domain, Hence it is advisable to have an access port associated with single SAP and its corresponding services.